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NEW CLAIMS

1. A multilayer polymer film, where at least two contiguous layers are bound to each other by cross-linking of one layer to the other layer.

- 2. A film according to claim 1, wherein the cross-linking between two contiguous layers is the result of irradiation of cross-linking additives in both said layers.
- 3. A multilayer film according to claim 1or 2, wherein the polymer film is a barrier shrink film where a polyethylene layer is bound to a contiguous EVOH layer.
- 4. A process for manufacturing a multilayer polymer film, comprising providing in each of two contiguous layers cross-linking additives, and irradiating the film in conditions suitable to induce cross-linking between them.
- 5. A process according to claim 4, comprising providing in a plurality of pairs of contiguous layers cross-linking additives, and irradiating the film under conditions suitable to induce cross-linking between respective members of each of said pairs.
- 6. A process according to claim 4, wherein the multilayer polymer film is manufactured using the double-bubble process or the Tenter process.

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7. A process according to any one of the preceding claims, wherein the radiation is ultraviolet radiation at wavelengths to which the cross-linking additives are sensitive.

8. A process according to any one of the preceding claims, wherein the multilayer polymer film to be produced is a barrier shrink film where a polyethylene layer is to be bound to a contiguous layer of EVOH/PE blend or EVOH layer.